

SECTION 02535 - PLAY SURFACING

PART 1 - GENERAL

1.01 GENERAL CONDITIONS:

As specified in Section 00700.

PART 2 - PRODUCTS

2.01 MATERIALS:

- A. Asbestos Prohibition: No asbestos containing materials shall be used under this section. The Contractor shall ensure that all materials incorporated in the project are asbestos-free unless specifically approved in writing by the Engineer.
- B. Leveling Patch Mix: Shall consist of the following
- 5 parts 30 - 60 mesh silica sand
- 5 parts Seal-Master Black Level-Master by Wikel Mfg. Co., Inc., or APOC AC Filler Coat Binder 330 by Asphalt Products Oil Co., or Laykold Resurfacer by Flintkote, or Huntseal Asphalt Emulsion or Park-Top Pavement by Western Colloid Products, or approved equal.
- 2 parts Emulsified asphalt, Type SS-1
- 1 part Water (Note: No water for Seal Master)
- C. Sealer Compound: Shall be one of the following or an approved equal.

<u>Product/Qty.</u>	<u>30-60 Mesh</u>	<u>SS-1h Emulsion</u>	
	<u>Silica Sand</u>	<u>Asphalt</u>	<u>Water</u>
APOC AC Filler Coat Binder 300 55 gal.	450-600 lbs.	4-5 gal.	25-35 gal.
Huntseal Asphalt Emulsion 55 gal.	450-600 lbs.	4-5 gal.	25-35 gal.
Laykold Resurfacer 55 gal.	450-600 lbs.	4-5 gal.	25-35 gal.

NOTES TO ARCHITECT

<u>Product/Qty.</u>	30-60 Mesh <u>Silica Sand</u>	SS-1h Emulsion <u>Asphalt</u>	<u>Water</u>
Seal-Master Black Level- Master 55 gal.	450-600 lbs.	4-5 gal.	25-35 gal.
Park-Top Pavement Sealer 55 gal.	450-600 lbs.	4-5 gal.	25-35 gal.

- D. Wearcoat: Shall be green in color and one of the following, or an approved equal:

<u>Product/Qty.</u>	60-90 Mesh <u>Silica Sand</u>	<u>Water</u>
Decoralt DecoColor Multi-Purpose Coating 920-27 30 gal.	12 lbs.	12 gal.
Laykold Colorcoat 200 Laykold Colorcoat 100 (mix equal parts) 30 gal.	-----	10-28 gal.
Play-on 30 gal.	100-125 lbs.	20-24 gal.
Plexipave, Plexichrome (mix equal parts) 30 gal.	-----	7-10 gal.
Seal-Master Color-Master Base Coat, Color-Master Top Coat (mix equal parts) 30 gal.	120-180 lbs. (90 mesh)	60 gal.

- E. Navy Tennis Court Mix: Shall be specified in Section 02513 - Asphaltic Concrete Pavement.
- F. Tack Coat: Tack coat bituminous material shall be one-part slow-setting emulsified asphalt, Type SS-1 which meets the requirements of AASHTO M-140 mixed with 5-parts water. Tack coat shall be applied to a previously bitumized surface or concrete base or other surface prior to the laying of asphaltic concrete for resurfacing or matching a new pavement or existing pavement.

PART 3 - EXECUTION

- 3.01 CLEANING: New asphalt shall be cured a minimum of 14 days prior to surfacing. New asphalt which becomes dirty shall be well cured before cleaning is attempted. Existing play surfaces shall be cleaned. All dirt and loose paint and aggregate shall be removed from the entire area to be surfaced by scraping, brooming and hosing from 2,500-3,000 psi spray water. Grease and oil shall be removed by brooming with a strong solution of detergent and water before hosing with water. (Color coated surfaces shall be etched in accordance with the manufacturer's directions when Seal Master is to be used.)
- 3.02 LEVELING: Court surface shall be leveled in accordance with the following procedure:
- A. The entire area shall be flooded with water and allowed to drain for 20 minutes.
 - B. Any areas holding over 1/4" of water shall be marked, dried out, and leveled with U. S. Navy Tennis Court Mix.
 - C. Any areas holding water deep enough to cover a nickel (1/16") and up to 1/4" in depth shall be marked, dried out and leveled with the leveling patch mix. Level in lifts of 1/8" maximum depth each lift and allow to dry completely before applying succeeding lift.
 - D. Tack coat shall be applied over newly applied U.S. Navy Tennis Court Mix or Leveling Patch Mix prior to Sealer Compound application.
- 3.03 TACK COAT: After all areas are leveled, application apply tack coat over entire court.
- A. Tack coat shall not be applied when the surface to be treated is appreciably damp or when weather conditions are unsuitable.
 - B. Tack coat shall be uniformly applied by a pressure distributor or rubber faced squeegee with long handle at the approximate rate of fifteen hundredths (0.15) of a gallon per square yard.
 - C. Tack coat shall be placed only so far in advance of the surface course placement as is necessary for it to cure to the proper condition for placement of such surface course. Until the surface is placed, the Contractor shall protect the tack coat from damage.

3.04 SEALER COMPOUND APPLICATION:

- A. Mixing shall be in conformance with manufacturer's recommendations.
- B. Method of Application: Prior to the first application of patching compound, fog the surface with water from a hose to cool and dampen the surface. Do not allow any free water to remain. Additional water fog must be applied when the surface becomes dry as the squeegee work progresses, but only for the first application. Subsequent applications shall be made without fog.

Sealer compound shall be applied to the entire court by pouring from a can or a wheeled container in continuous parallel lines and spreading immediately with rubber-faced squeegees or with long-handled hair brooms. The squeegee or broom shall be pulled on an angle from the line of spread so as to continually roll the materials toward the operator and not overflow or "spill" on its forward edge away from the operator. After each coat has dried, any ridges shall be removed with scrapers.

No application shall be covered by a succeeding application until thoroughly cured, dry to the touch and not scuffing under normal walking. Subsequent application shall be applied 90 degrees to the prior application.

- C. Quantity of Application: Sealer compound shall be applied to the clean underlying surfaces in multiple applications, to obtain a minimum total quantity as specified by the manufacturer, but not to be less than 3 applications.
- D. Rolling: After thorough drying, the final application of sealer compound shall be uniformly rolled. Rollers shall be power-driven machines weighing from 2 to 4 tons. Rollers shall not be left standing on the area at any time.
- E. Finish: The controlling factor shall not be the number of applications, nor the quantity of sealer compound used (except that minimum application shall conform to manufacturer's recommendations but not less than 3) but it shall be the following specified result to be obtained:

After the final coat of sealer compound has been

applied, rolled and allowed to dry thoroughly, its surface shall be smooth and uniform, showing no evidence of coarse or uneven texture, free of ridges, valleys and tool marks.

The completed and rolled surface shall not pond water anywhere to a depth greater than the thickness of a nickel (1/16") when flooded.

- F. Protection: The finished surface shall be protected from traffic during all operations and until final acceptance of project.

3.05 WEARCOAT APPLICATION:

- A. Mixing and Method of Application: Shall be as specified under sealer compound except that wearcoat shall be applied on the clean, dry sealer compound surface.
- B. Quantity of Application: Wearcoat shall be applied on the clean, dry underlying surface to obtain a minimum total quantity as recommended by the manufacturer, except that a minimum of two applications shall be made. No application shall be covered by a succeeding application until it is thoroughly cured, dry to the touch and will not scuff under normal pedestrian traffic.
- C. Finish and Protection: Shall be as specified under Sealer Compound Application.

END OF SECTION